rady of Auto falled Need of All Who Drive

in Realm of atomotive Engineering las a Real Task Learning How to Run Machine

of Car Comes First

er Supplies of Gasoand Oil Are Among Most Important Details

By H. Clifford Brokaw Director, West Side Y. M. C. A. Automobile School

tying a car is somewhat like going ere, the automobile freshman is cellege, the automobile freshman is continuous to sequire a lot of information or the aver knew before and to give goed many interesting experiences mere or less novel. This number of less novel. This number of women drivers are small sumber of women drivers are small sumber of women drivers are plaining motors along our high-and their proportion, as compared with men is constantly increas-

he arwomer into the realm of anotive engineering, that is the up who has just purchased a car dees not know how to drive has a real undertaking on his hands in the thing well, the fine art of automomentuation. The new owner who friven other cars has a less different public means a training the problem but even at that, it is one as retiously. From the pedestrians geolem but even at that, it is one seriously. From the pedestrians of view, he would doubtless contact a regular educational course hing a car would not come in for the well seasoned driver judges what he sees of reckless drived the way he has frequently to machines to save his life. Few, car owners ever reach the point they know it all in driving, earling out to learn how to drive stomobile the neophyte should. tamobile the neophyte should.
I all, know that the car to be
d is in good drivable condiThere should be a good supply
soline, oil, and water in the
receptacles for such necessiThe tires should be properly inires should be properly in-batteries charged and the

Pirst Acts In Driving

prospective driver then seats of behind the wheel. It is a good to have an experienced driver at ide until he gets on to the weetal principles of driving. It messary, of course, to start the at This is done by stepping on self-starter pedal, or if there is elicitative, by cranking, done starting the engine, however, atte a few preliminary and im-

se a few preliminary and im-the details that need attention. stance, the driver should place outshifting lever in the neutral presenting put the emergency brake on, that the spark fully, or, if well assumed with the motor, to point when the spark surely will occur on erafleth trank has passed top center, one that the trank has passed top center, one that the retire acquainted with the e pulling acquainted with the chies me will find a position for thousand the share the motor always laures. Put on the switch: If ng idle it should turn over should then place the left

ver should then place the left is clutch pedal and press hard is the clutch. Keep it disentille with the right hand the y brake is released and the ris shifted from neutral to speed notch. Then with the t press the accelerator pedal mill the motor speed is inallittle and at the same time eleft foot allow the clutch come back very slowly so that seletch will engage without jerking a car. When it has become fully exped press accelerator pedal slight-aspeed up the machine. As soon at its attained fair momentum, release a dutch and at the same time let up the accelerator pedal. Change gear me immediately from first speed to to second speed notch and let in a dutch quickly until you feel it as bold, and then gradually at the magnitude pressing slightly on the accelerator pedal.

Apply Brakes Gently

Apply Brakes Gently

When the clutch pedal is pushed out
the exclerator pedal should be retease; when the clutch is let in the
acclerator pedal should be pressed
slightly. Change from second to third
always pushing clutch pedal when gear
is shifted always accelerating while
clutch is being engaged.

Do not forget that the clutch is released when the clutch pedal is pushed
from, and that it is engaged when the
medal is allowed to come back. Run on
the high speed gear as much as nosble, and when it is necessary to drive
sere slowly release the clutch and
uply the brake gently until the car is
mount to the desired speed.

If this speed is too slow for the use
the high speed gear release the
take and with the clutch still disented change from the high to the
the car has lost much motag am it may be necess.

th If the car has lost much moat mus be necess y to change lowest gear before letting in the otherwise the engine may be

not go too close to the other e or objects before releasing the and applying the brakes, as the may not hold as well as is ex-

sen desiring to stop, select some along the curb and when still distance from it disengage the hand apply the brake gently and the car under control so that you stop ten feet before the object is set if you wish to. Then releasible brake slightly, allow the car to until close to the object, then apply the brake with sufficient to bring the car to a standatill, the door directly opposite the selected and the car close to the curb to allow passengers after the curb to allow passengers stated, apply emergency brake and up the engine by closing the careful that the alice.

reful that the tires do not along the curb, as this is very

ring.

The curb, as this is very coversing the machine bring it to datill, then with the clutch replace the gear lever in the reserving and with the clutch to emparison which a close to be the rear wheel. It is also to the control of the country ck when ascending hills.

Egyptians Will Study Auto Building in U.S.

Ten Egyptian students, graduates of the engineering and polytechnic schools of Egypt, sent to America by the Khedive's government to learn American manufacturing methods, arrived recently in Washington.

They have been placed by the Department of Commerce in automobile and other factories, where they will for two years work as employees, with the purpose of carrying back to the land of the pyramids the industrial and technical knowledge and skill of the

Week's Show Is Opened By Bronx Auto Dealers

Latest Models of Closed and Open Cars Placed on Exhibition

Exhibition

The Bronx Automobile Dealers' Association started their autumn automobile show yesterday with a motor car parade in which about twenty-five dealers were represented. The parade, headed by the Catholic Protectory Band, consisted of about 130 cars, the very latest models of about thirty different makes of closed and open cars.

There are about forty-one motor car dealers in the Bronx and the dealers' association is now becoming an important factor in matters in that important motoring borough.

The present show, which will close next Saturday, is being held in the salesroms of the members of the association. All of the salesrooms are in gala attire for the week and the dealers are competing for a prize offered for the best decorated salesroom which shall be judged by popular vote.

Hudson County Gives Hearty

Greeting to Big Auto Show After a most successful opening yesterday afternoon, the third annual automobile show of the Hudson County Automobile Trade Association will continue throughout the week in the 4th Regiment Armory, Jersey City. The display will not be open to-day, but beginning to-morrow will open at 2:30 p. m. and close at 10:30 p. m. The same hours will prevail daily until next Saturday, inclusive.

There are thirty-two different makes of cars, comprising more than 100 models, on the floor of the Armory, while the balcony of the building is devoted to accessories.

Motor Trucks Shown as Boon In Milk Trade

Dairy Men at Convention in Marketing of Product

Trucks Are "Life Savers"

Millions of Tons Delivered by Motor to Cities to Avoid Ligh Freight Rates

The importance of motorized transortation in milk shipments was one of he features of the session of the National Milk Producers' Federation at their annual convention held in Springfield, Mass., last week.

Speakers from representative dairy

field, Mass., last week.

Speakers from representative dairy districts told of the remarkable increase in the use of motor trucks to bring milk into the city markets.

H. D. Allabach, of Philadelphia, president of the Interstate Milk Producers' Association, declared that such shipments in the last three years had increased nearly 500 per cent. High freight rates were given as one of the big causes of the increase.

H. R. Leonard, of St. Paul, Minn., manager of the Twin City Milk Producers' Association, said that out of 10,000,000 pounds of milk sent by his association into St. Paul and Minneapolis monthly 8,000,000 pounds are transported by trucks.

H. H. Berning, of Cincinnati, secretary-treasurer of the Queen City Milk Producers' Association, said that over 90 per cent of Cincinnati's milk supply comes by motor truck on account of high freight rates.

"The motor truck has been a life saver to a great many farmers who do not have rail facilities for shipping milk," declared I. W. Heaps, of Baltimore, Md, secretary-treasurer of the Maryland State Dairymen's Association. "There are some great advantages from the producers' standpoint in truck-shipped milk. The shippers' cans are washed and returned the same day of shipment, only one set of cans is required and there is less loss by spillage and sour milk."

Mr. Heaps dwelt upon the truck as the opener of new milk territory. "The

Mr. Hesps dwelt upon the truck as the opener of new milk territory. "The trucks are responsible for our congested market condition of fluid milk," said he, "as they usually open up new terri-tory and induce farmers to go into the milk producing business, who, with lit-Route Car Visits Florida

Route Car No. 2 of the National Motorists' Association, in charge of Don B. Scott and George E. Young, who were received by President Harding as they passed through Washington, is now in the Jacksonville, Fla., district, on its mission of providing the most up-to-date road information possible to and from Florida for tourists.

milk producing business, who, with little or no equipment, are able to produce milk as a side issue at a cost which makes it very hard for a man with proper equipment and considerable capital invested to continue to compete. If this condition should continue it will have a tendency to force the large milk producer out of business and bring about the installation of cooling stations in the country where all milk can be collected and shipped to the

Automobile Trade Notes

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natier wheels and tires will be in nee on the 1923 automobile." says records.

ral Manager J. A Clark, of the New branch of the Peeriess Eight. There been a tendency to reduce the wheel

Cadillac Makes Film

Cadiline Makes Film

To promote the sale of American manuactures at home and in foreign lands, ferbert Hoover, United States Secretary of Commerce, has given his support to production of motion pictures showing actual manufacturing processes in some of the country's leading industries.

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WALL TO THE PARTY OF THE PARTY

Thousands
Of Satisfied

be in consecutive month breaking all previous

ins been a tendency to reduce the wheel liameter on cars. The new Peerless is successful effort to supply the demand Tell of Rem. rkable InThe car now uses 23x5 inch tires, where crease in Vehicles' Use the spirit and tenacity of the factory organization. To overcome the obstacles created by the railroad embargoes that affected both whipments in and out of the factory, every other means of transportation was worked to the limit."

Country's leading industries.

I co-operation with the Department of imerce, the Cadiliac Motor Car Company has completed a film pletring "they of a V-type, eight cylinder, motor to be included in the government's series.

Buick Production Record incomment has been made by the K Motor Company of an October pro-

WILL YOU BEAR WITH the many an-

novances and difficulties of the old fashioned hood cover—or will you profit by the example of the many wise owners who avoid countless cold-weather motor troubles by installing the WINTERFRONT. Any one can easily stack with 4 small halts on other connections.

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open and close precisely with the needs of the motor—automatically. Particularly useful in the fall because it does away with continual carbureter adjustments called for by sudden temperature changes. Approved by Packard, Lafayette, Cadillac and other leading manufactures.

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F. B. HAGUE, 59 Washington St., Newark, N. J.

BAUER BROS., 219 Paterson St., Paterson, N. J.

WINTERFRONT SALES CO., 398 Bloomfield Av., Montclair, N. J. SPROUT & DUNN, 211 State St., Hackensack, N. J. MELBOURNE & RITTER, 77 Smith St., Perth Amboy, N.

Sport Maxwell Appears

Experts May End Gum Deposits in Gasoline

Studies of Methods Being Made to Guard Against Dreaded Substance

out by the Bureau of Mines in connection with an examastive report made on the subject of gum-forming substances in gasoline. While this problem is one with which motorists primarily do not have to deal, yet care is necessary on the part of the manufacturer, to the end that it is not develored the consumers.

turer, to the end that it is not developed the gas has been sold to the consumers.

The Bureau of Mines, in a report which has been transmitted to the N.

Announcement has been made by the State Commissioner of Highways that Route 6, which extends from Albany to Buffalo, is open the entire length.

M. A., states that additional studies of Americans Urged to Join the various methods of evaporation and oxidation of cracked gasoline are to be made, and the results of the same will

be made public promptly.
In this connection the bureau says:
"It sometimes happens that gasoline that is apparently normal when made Another problem which may rise up to vex and harass motorists is pointed out by the Bureau of Miss. these gums and indicate how their for-mation might be prevented. In the in-vestigation just made a new and con-venient method was developed for de-termining the 'gum' in gasoline."

Buffalo-Albany Route Open

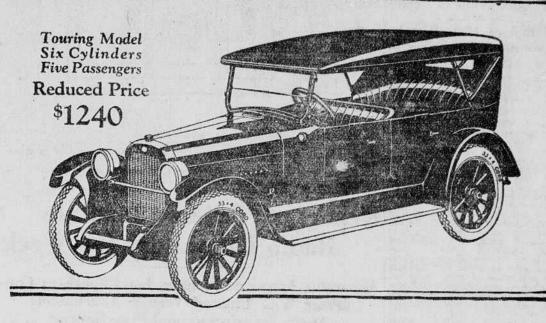
In Swedish Auto Show

should not neglect to exhibit their products at the next Swedish International Automobile Exhibition at Goteborg, Sweden, says Consul Sholes in a report to the Department 22 Com merce at Washington

merce at Washington.

It will be held in conjunction with the Goteborg Jubilee Exposition from May 8 to July 15, 1923. Almost 75 per cent of the 29,562 cars and trucks in use in Sweden are of American manufacture. The Royal Automobile Club of Goteborg has already sent a committee to the Continent with the intention of arousing interest among European manufacturers. Accessory manufacturers should be particularly interested in this exhibition.

Nash Leads the World in Motor Car Value



Nash, With New Features, **Proves Powerful Attraction** On Display All Week!

The newly added attractions of the refined Nash have proved so remarkably appealing in the way of increased values as to cause an unprecedented attendance at our showrooms.

In fact, so vigorously growing is this interest that we have arranged for a special display all week of the striking Nash improvements.

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For instance, test the increased ease of stering through the recent, specially designed mechanism. Not the better ventilation, with the new-type cowl ventilator just forward of the windshield.

Inspect the oil kipp equipment which assures a quick, cleanly and positive means of oiling vital points give the kipps a pushnote their effective ess.

Observe that "weaving" and "travel strain" of the chassis are now thoroughly overcome by a stalward at the flont which rigidly clamps the ide members.

Then see how strikingly the new-vogue barreled headlamps add to the car's smart appearance. Examine the quick-focussing device-exclusively Nah-tha spots light swiftly at any angle.

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oming in at once you will gain a first-hand observance of eason's greatest "buy" at a time when it is being fully exhibited.

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